Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 1)	0
lambda_1 (Lambda)	(None, 512)	0
dense_1 (Dense)	(None, 128)	65664
dropout_1 (Dropout)	(None, 128)	0
dense_2 (Dense)	(None, 1)	129

Total params: 65,793
Trainable params: 65,793
Non-trainable params: 0

2019-06-04 14:21:17.174077: I tensorflow/core/platform/cpu_feature_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2
Train on 40000 samples, validate on 10000 samples
Epoch 1/20
40000/40000 [==============================] - 82s 2ms/step - loss: 0.3735 - acc: 0.8357 - val_loss: 0.3336 - val_acc: 0.8536
Epoch 2/20
40000/40000 [==============================] - 82s 2ms/step - loss: 0.3388 - acc: 0.8517 - val_loss: 0.3269 - val_acc: 0.8576
Epoch 3/20
40000/40000 [==============================] - 76s 2ms/step - loss: 0.3298 - acc: 0.8548 - val_loss: 0.3214 - val_acc: 0.8613
Epoch 4/20
40000/40000 [==============================] - 79s 2ms/step - loss: 0.3238 - acc: 0.8584 - val_loss: 0.3181 - val_acc: 0.8621
Epoch 5/20
40000/40000 [==============================] - 77s 2ms/step - loss: 0.3181 - acc: 0.8627 - val_loss: 0.3168 - val_acc: 0.8624
Epoch 6/20
40000/40000 [==============================] - 75s 2ms/step - loss: 0.3141 - acc: 0.8651 - val_loss: 0.3144 - val_acc: 0.8644
Epoch 7/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.3125 - acc: 0.8644 - val_loss: 0.3203 - val_acc: 0.8568
Epoch 8/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.3083 - acc: 0.8673 - val_loss: 0.3119 - val_acc: 0.8631
Epoch 9/20
40000/40000 [==============================] - 75s 2ms/step - loss: 0.3045 - acc: 0.8694 - val_loss: 0.3099 - val_acc: 0.8690
Epoch 10/20
40000/40000 [==============================] - 78s 2ms/step - loss: 0.3020 - acc: 0.8713 - val_loss: 0.3159 - val_acc: 0.8589
Epoch 11/20
40000/40000 [==============================] - 75s 2ms/step - loss: 0.2988 - acc: 0.8728 - val_loss: 0.3075 - val_acc: 0.8679
Epoch 12/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2977 - acc: 0.8738 - val_loss: 0.3056 - val_acc: 0.8682
Epoch 13/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2941 - acc: 0.8748 - val_loss: 0.3112 - val_acc: 0.8662
Epoch 14/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2927 - acc: 0.8765 - val_loss: 0.3099 - val_acc: 0.8687
Epoch 15/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2898 - acc: 0.8778 - val_loss: 0.3052 - val_acc: 0.8693
Epoch 16/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2863 - acc: 0.8800 - val_loss: 0.3050 - val_acc: 0.8716
Epoch 17/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2855 - acc: 0.8789 - val_loss: 0.3047 - val_acc: 0.8715
Epoch 18/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2835 - acc: 0.8808 - val_loss: 0.3052 - val_acc: 0.8701
Epoch 19/20
40000/40000 [==============================] - 74s 2ms/step - loss: 0.2811 - acc: 0.8827 - val_loss: 0.3080 - val_acc: 0.8668
Epoch 20/20
40000/40000 [==============================] - 75s 2ms/step - loss: 0.2800 - acc: 0.8832 - val_loss: 0.3065 - val_acc: 0.8713

model accuracy & loss